

Refine Search

Search Results -

Terms	Documents
L15 and L12	4

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L16

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Wednesday, May 11, 2005 [Printable Copy](#) [Create Case](#)

Set Name Query
side by side

Hit Count Set Name
result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L16</u>	L15 and L12	4	<u>L16</u>
<u>L15</u>	(L13 or L14) and (L1 or L5 or L7)	249	<u>L15</u>
<u>L14</u>	709/217-219.ccls.	6578	<u>L14</u>
<u>L13</u>	715/501.1.ccls.	1014	<u>L13</u>
<u>L12</u>	(L1 or L5 or L7) and (periodic\$7 same refresh\$3)	124	<u>L12</u>
<u>L11</u>	L10 and (periodic\$7 same refresh\$3)	8	<u>L11</u>
<u>L10</u>	(L1 or L5 or L7) and (plug near play)	144	<u>L10</u>
<u>L9</u>	L7 and appliance\$1 and automation	34	<u>L9</u>
<u>L8</u>	L7 and appliane\$1 and automation	0	<u>L8</u>
<u>L7</u>	Internet and (remote same robot\$1)	452	<u>L7</u>
<u>L6</u>	(L5 or L1) and X10	48	<u>L6</u>
<u>L5</u>	(HTML or Web or hypertext) same (home same device\$1)	4167	<u>L5</u>
<u>L4</u>	L3 and (HTML or (Web same page\$1))	52	<u>L4</u>
<u>L3</u>	L2 and (device\$1 same representation\$1)	64	<u>L3</u>

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09/104,277

<u>L2</u>	L1 and device\$1	179	<u>L2</u>
<u>L1</u>	browser\$1 and home automation	190	<u>L1</u>

END OF SEARCH HISTORY

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Clear	Generate Collection	Print	Fwd Refs	Back Refs
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Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20030101255 A1

Using default format because multiple data bases are involved.

L16: Entry 1 of 4

File: PGPB

May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030101255

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030101255 A1

TITLE: Computerized system and method for web enabling and/or web management of embedded applications

PUBLICATION-DATE: May 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Green, Doron	Tel-Aviv		IL	

US-CL-CURRENT: 709/223; 709/218

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 6708217 B1

L16: Entry 2 of 4

File: USPT

Mar 16, 2004

US-PAT-NO: 6708217

DOCUMENT-IDENTIFIER: US 6708217 B1

TITLE: Method and system for receiving and demultiplexing multi-modal document content

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 3. Document ID: US 6138150 A

L16: Entry 3 of 4

File: USPT

Oct 24, 2000

US-PAT-NO: 6138150

DOCUMENT-IDENTIFIER: US 6138150 A

TITLE: Method for remotely controlling computer resources via the internet with a

web browser

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMHC	Draw Da
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☐ 4. Document ID: US 5948061 A

L16: Entry 4 of 4

File: USPT

Sep 7, 1999

US-PAT-NO: 5948061

DOCUMENT-IDENTIFIER: US 5948061 A

**** See image for Certificate of Correction ****

TITLE: Method of delivery, targeting, and measuring advertising over networks

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMHC	Draw Da
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L15 and L12	4

Display Format: [Previous Page](#)[Next Page](#)[Go to Doc#](#)

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Clear	Generate Collection	Print	Fwd Refs	Backd Refs
Generate OACS				

Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1. Document ID: US 20050076127 A1

Using default format because multiple data bases are involved.

L11: Entry 1 of 8

File: PGPB

Apr 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050076127

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050076127 A1

TITLE: Method for controlling services

PUBLICATION-DATE: April 7, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wilson, Julian Marcus	Failand		GB	
Haydock, Steven Nicholas	Bradley Stoke North		GB	
O'Connor, Brendan	Wotton-Under-Edge		GB	

US-CL-CURRENT: 709/227; 340/825.25, 709/229, 709/231, 715/733

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K000	Draw D
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☐ 2. Document ID: US 20030189509 A1

L11: Entry 2 of 8

File: PGPB

Oct 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030189509

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030189509 A1

TITLE: System and method for automatically setting up a universal remote control

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K000	Draw D
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☐ 3. Document ID: US 20030141987 A1

L11: Entry 3 of 8

File: PGPB

Jul 31, 2003

PGPUB-DOCUMENT-NUMBER: 20030141987

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030141987 A1

TITLE: System and method for automatically setting up a universal remote control

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWAC	Draw Da
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☐ 4. Document ID: US 20030044020 A1

L11: Entry 4 of 8

File: PGPB

Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030044020

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030044020 A1

TITLE: Establishing secure peer networking in trust webs on open networks using shared secret device key

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWAC	Draw Da
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☐ 5. Document ID: US 20020103897 A1

L11: Entry 5 of 8

File: PGPB

Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020103897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020103897 A1

TITLE: Method and system for adaptively setting a data refresh interval

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWAC	Draw Da
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☐ 6. Document ID: US 20020083143 A1

L11: Entry 6 of 8

File: PGPB

Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020083143

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020083143 A1

TITLE: UPnP architecture for heterogeneous networks of slave devices

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWAC	Draw Da
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☐ 7. Document ID: US 20020078161 A1

L11: Entry 7 of 8

File: PGPB

Jun 20, 2002

PGPUB-DOCUMENT-NUMBER: 20020078161

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020078161 A1

TITLE: UPnP enabling device for heterogeneous networks of slave devices

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 8. Document ID: US 6708217 B1

L11: Entry 8 of 8

File: USPT

Mar 16, 2004

US-PAT-NO: 6708217

DOCUMENT-IDENTIFIER: US 6708217 B1

TITLE: Method and system for receiving and demultiplexing multi-modal document content

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L10 and (periodic\$7 same refresh\$3)	8

Display Format:

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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 34 of 34 returned.

☐ 1. Document ID: US 20040133793 A1

Using default format because multiple data bases are involved.

L9: Entry 1 of 34

File: PGPB

Jul 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040133793

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040133793 A1

TITLE: Systems and methods for secure transaction management and electronic rights protection

PUBLICATION-DATE: July 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ginter, Karl L.	Beltsville	MD	US	
Shear, Victor H.	Bethesda	MD	US	
Spahn, Francis J.	El Cerrito	CA	US	
Van Wie, David M.	Sunnyvale	CA	US	

US-CL-CURRENT: 713/193

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 2. Document ID: US 20040103305 A1

L9: Entry 2 of 34

File: PGPB

May 27, 2004

PGPUB-DOCUMENT-NUMBER: 20040103305

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040103305 A1

TITLE: Systems and methods for secure transaction management and electronic rights protection

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 3. Document ID: US 20040054630 A1

L9: Entry 3 of 34

File: PGPB

Mar 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040054630
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040054630 A1

TITLE: Systems and methods for secure transaction management and electronic rights protection

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw De
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☐ 4. Document ID: US 20030191719 A1

L9: Entry 4 of 34

File: PGPB

Oct 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030191719
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030191719 A1

TITLE: Systems and methods for secure transaction management and electronic rights protection

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw De
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☐ 5. Document ID: US 20030163431 A1

L9: Entry 5 of 34

File: PGPB

Aug 28, 2003

PGPUB-DOCUMENT-NUMBER: 20030163431
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030163431 A1

TITLE: Systems and methods for secure transaction management and electronic rights protection

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw De
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☐ 6. Document ID: US 20030105721 A1

L9: Entry 6 of 34

File: PGPB

Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030105721
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030105721 A1

TITLE: Systems and methods for secure transaction management and electronic rights protection

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw De
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☐ 7. Document ID: US 20030088784 A1

L9: Entry 7 of 34

File: PGPB

May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030088784
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030088784 A1

TITLE: Systems and methods for secure transaction management and electronic rights protection

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 8. Document ID: US 20020173877 A1

L9: Entry 8 of 34

File: PGPB

Nov 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020173877
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020173877 A1

TITLE: Mobile robotic with web server and digital radio links

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 9. Document ID: US 20020112171 A1

L9: Entry 9 of 34

File: PGPB

Aug 15, 2002

PGPUB-DOCUMENT-NUMBER: 20020112171
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020112171 A1

TITLE: Systems and methods for secure transaction management and electronic rights protection

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 10. Document ID: US 20020048369 A1

L9: Entry 10 of 34

File: PGPB

Apr 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020048369
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020048369 A1

TITLE: Systems and methods for secure transaction management and electronic rights protection

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 11. Document ID: US 6850252 B1

L9: Entry 11 of 34

File: USPT

Feb 1, 2005

US-PAT-NO: 6850252

DOCUMENT-IDENTIFIER: US 6850252 B1

TITLE: Intelligent electronic appliance system and method

Full	Title	Citation	Front	Review	Classification	Date	Reference	References	Abstracts	Claims	KWIC	Draw De
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☐ 12. Document ID: US 6697044 B2

L9: Entry 12 of 34

File: USPT

Feb 24, 2004

US-PAT-NO: 6697044

DOCUMENT-IDENTIFIER: US 6697044 B2

TITLE: Haptic feedback device with button forces

Full	Title	Citation	Front	Review	Classification	Date	Reference	References	Abstracts	Claims	KWIC	Draw De
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☐ 13. Document ID: US 6658325 B2

L9: Entry 13 of 34

File: USPT

Dec 2, 2003

US-PAT-NO: 6658325

DOCUMENT-IDENTIFIER: US 6658325 B2

TITLE: Mobile robotic with web server and digital radio links

Full	Title	Citation	Front	Review	Classification	Date	Reference	References	Abstracts	Claims	KWIC	Draw De
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☐ 14. Document ID: US 6640304 B2

L9: Entry 14 of 34

File: USPT

Oct 28, 2003

US-PAT-NO: 6640304

DOCUMENT-IDENTIFIER: US 6640304 B2

**** See image for Certificate of Correction ****

TITLE: Systems and methods for secure transaction management and electronic rights protection

Full	Title	Citation	Front	Review	Classification	Date	Reference	References	Abstracts	Claims	KWIC	Draw De
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☐ 15. Document ID: US 6640145 B2

L9: Entry 15 of 34

File: USPT

Oct 28, 2003

US-PAT-NO: 6640145

DOCUMENT-IDENTIFIER: US 6640145 B2

TITLE: Media recording device with packet data interface

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	References	Claims	KWIC	Draw De
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☐ 16. Document ID: US 6459955 B1

L9: Entry 16 of 34

File: USPT

Oct 1, 2002

US-PAT-NO: 6459955

DOCUMENT-IDENTIFIER: US 6459955 B1

TITLE: Home cleaning robot

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	References	Claims	KWIC	Draw De
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☐ 17. Document ID: US 6427140 B1

L9: Entry 17 of 34

File: USPT

Jul 30, 2002

US-PAT-NO: 6427140

DOCUMENT-IDENTIFIER: US 6427140 B1

**** See image for Certificate of Correction ****

TITLE: Systems and methods for secure transaction management and electronic rights protection

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	References	Claims	KWIC	Draw De
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☐ 18. Document ID: US 6390151 B1

L9: Entry 18 of 34

File: USPT

May 21, 2002

US-PAT-NO: 6390151

DOCUMENT-IDENTIFIER: US 6390151 B1

TITLE: Automated fueling system with remote service facility to operate multiple refueling stations

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	References	Claims	KWIC	Draw De
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☐ 19. Document ID: US 6389402 B1

L9: Entry 19 of 34

File: USPT

May 14, 2002

US-PAT-NO: 6389402

DOCUMENT-IDENTIFIER: US 6389402 B1

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5/11/2005

09/104,227



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Best 200 shown

Relevance scale ☐ ☐ ☐ ☐ ☐**1 upFRONT**July 2000 **Linux Journal**Full text available: [html\(20.85 KB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)**2 SNMP for home automation**

Ran Giladi

July 2004 **International Journal of Network Management**, Volume 14 Issue 4Full text available: [pdf\(177.81 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Home and building automation applications impose the need for convergence, or at least interoperability, of data networks with intelligent building networks. This situation entails the use of a unified management system. In this paper we extend the traditional SNMP-based network management system paradigm by creating an integrated site network management system that contains data elements, telecommunication equipment and intelligent building devices. A possible architecture based on a proxy gate ...

3 Position statements: Multimedia middleware for the future home

Reinhard Baler, Christian Gran, Angela Scheller, Andreas Zisowsky

October 2001 **Proceedings of the 2001 international workshop on Multimedia middleware**Full text available: [pdf\(730.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Applications which are intended for the home of the future require a common multimedia middleware which takes the particular requirements of residential environments into account. HAVi is a potential candidate for such a middleware. It aims to handle the communication between different kinds of consumer electronic devices. Based on IEEE 1394 it provides broadband connectivity which could be extended to other home appliances. This paper briefly introduces the HAVi specification and positions HAVi ...

Keywords: home networking, multimedia middleware**4 Editorial pointers**May 2000 **Communications of the ACM**, Volume 43 Issue 5

Full text available:  [pdf\(106.34 KB\)](#) Additional Information: [full citation](#), [index terms](#)
 [html\(5.44 KB\)](#)

5 Inventing the networked home: Sun, 3 Com, and other companies share their visions of the future at CES

Brent Butterworth

March 2000 **netWorker**, Volume 4 Issue 1

Full text available:  [pdf\(1.56 MB\)](#)  [html\(17.13 KB\)](#) Additional Information: [full citation](#), [index terms](#)



6 Proceedings - only: Position paper: the role of platforms and operating systems in supporting home networks

Nigel Davies, Pierre-Guillaume Raverdy

September 2000 **Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system**

Full text available:  [pdf\(37.75 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)


As researchers look beyond the PC there is increasing interest in developing and deploying sophisticated home networks. Such networks might allow the seamless integration of information and services produced both within the home and externally, enabling applications such as the purchase of on-line AV content, tight coupling between kitchen sensors and "Web Van" order forms, and home remote control. From a manufacturers perspective, particularly those manufacturers traditionally associated with b ...



7 Papers: infrastructure for ubicomp: Generating remote control interfaces for complex appliances

Jeffrey Nichols, Brad A. Myers, Michael Higgins, Joseph Hughes, Thomas K. Harris, Roni Rosenfeld, Mathilde Pignol

October 2002 **Proceedings of the 15th annual ACM symposium on User interface software and technology**

Full text available:  [pdf\(4.58 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The *personal universal controller* (PUC) is an approach for improving the interfaces to complex appliances by introducing an intermediary graphical or speech interface. A PUC engages in two-way communication with everyday appliances, first downloading a specification of the appliance's functions, and then automatically creating an interface for controlling that appliance. The specification of each appliance includes a high-level description of every function, a hierarchical grouping of the ...

Keywords: appliances, handheld computers, pebbles, personal digital assistants (PDAs), personal universal controller (PUC), remote control, universal speech interface (USI)



8 Multiagent systems on the net

Anupam Joshi, Munindar P. Singh

March 1999 **Communications of the ACM**, Volume 42 Issue 3

Full text available:  [pdf\(117.18 KB\)](#)  [html\(8.05 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)



9 An editing tool that manages device associations in an in-home environment

Irene Mavrommati, Achilles Kameas, Panos Markopoulos

July 2004 **Personal and Ubiquitous Computing**, Volume 8 Issue 3-4Full text available:  [pdf\(372.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The forthcoming home environment will comprise numerous computationally enhanced artifacts that are autonomous, but interconnected via an invisible web of network-based services. The approach presented in this paper is to enable end users to make their own applications by linking such artifacts, which are treated as reusable "components." A key requirement to achieve this is the availability of editing tools that meet the needs of different classes of users. A tool of this kind design ...

Keywords: Component architectures, End-user programming, Ubiquitous computing**10** The information furnace: consolidated home control

Diomidis D. Spinellis

May 2003 **Personal and Ubiquitous Computing**, Volume 7 Issue 1Full text available:  [pdf\(488.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The Information Furnace is a basement-installed PC-type device that integrates existing consumer home-control, infotainment, security and communication technologies to transparently provide accessible and value-added services. A modern home contains a large number of sophisticated devices and technologies. Access to these devices is currently provided through a wide variety of disparate interfaces. As a result, end users face a bewildering array of confusing user-interfaces, access modes a ...

Keywords: Automation, Consumer electronics, Home-control, Multi-modal interfaces**11** NetNews: "It's alive!"

Dennis Fowler

June 2003 **netWorker**, Volume 7 Issue 2Full text available:  [pdf\(128.27 KB\)](#) Additional Information: [full citation](#), [index terms](#)
 [html\(22.79 KB\)](#)**12** Embedded computation meets the World Wide Web

Gaetano Borriello, Roy Want

May 2000 **Communications of the ACM**, Volume 43 Issue 5Full text available:  [pdf\(456.09 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
 [html\(41.58 KB\)](#)**13** Cross-modal interaction using XWeb

Dan R. Olsen, Sean Jefferies, Travis Nielsen, William Moyes, Paul Fredrickson

November 2000 **Proceedings of the 13th annual ACM symposium on User interface software and technology**Full text available:  [pdf\(200.30 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** cross-modal interaction, network interaction, screen layout, speech interfaces

14 A call for the home media network


Gordon Bell, Jim Gemmell

July 2002 **Communications of the ACM**, Volume 45 Issue 7Full text available:  [pdf\(283.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
 [html\(26.70 KB\)](#)

"The best way to predict the future is to invent it."---Alan Kay "...or at least posit a vision for others to build."---The authors

15 iMobile: a proxy-based platform for mobile services

Chung-Hwa Herman Rao, Yih-Fam Robin Chen, Di-Fa Chang, Ming-Feng Chen


July 2001 **Proceedings of the first workshop on Wireless mobile internet**Full text available:  [pdf\(829.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

iMobile is a proxy-based platform that addresses the research issues in building mobile services. iMobile acts as a message gateway that allows mobile devices using various protocols on different access networks to relay messages to each other. It also allows these clients to access internet services, corporate databases, and to control various networked devices. iMobile implements three key abstractions: *devlet*, *infolet*, and *applet*. A devlet is a driver attached to ...

Keywords: CDPD, GSM, IMAP, POP3, SMS, TCP/IP, TDMA, WAP, X10, home network, instant messaging, mobile computing, proxy, telnet, wireless

16 Full Papers: Navigational blocks: navigating information space with tangible media

Ken Camarata, Ellen Yi-Luen Do, Brian R. Johnson, Mark D. Gross

January 2002 **Proceedings of the 7th international conference on Intelligent user interfaces**Full text available:  [pdf\(623.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Navigational Blocks project demonstrates a tangible user interface that facilitates retrieval of historical stories in a tourist spot. Orientation, movement, and relative positions of physical Blocks support visitor navigation and exploration in a virtual gallery. The Navigational Blocks system provides a physical embodiment of digital information through tactile manipulation and haptic feedback. The simple cubic form of the Blocks is easy to understand and therefore easy to use to manipulate ...

Keywords: database query, information navigation, tangible interface

17 Session 6A: applications: An open agent architecture for assisting elder independence


Karen Zita Haigh, John Phelps, Christopher W. Geib

July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 2**Full text available:  [pdf\(189.14 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We are building an agent-oriented system to aid elderly people to live longer in their homes, increasing the duration of their independence from round-the-clock care while maintaining important social connectedness and reducing caregiver burden. The Independent LifeStyle Assistant (I.L.S.A.) is a multiagent system that incorporates a unified sensing model, probabilistically derived situation awareness, hierarchical task network response planning, real-time action selection control ...

18 UIST'007 (panel): where will we be ten years from now?

Robert J. K. Jacob, Steven K. Feiner, James D. Foley, Jock D. Mackinlay, Dan R. Olsen
October 1997 **Proceedings of the 10th annual ACM symposium on User interface software and technology**

Full text available:  [pdf\(567.74 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

Keywords: UIST'2007, future, human-computer interaction, prediction, user interface software and technology

19 From the Publisher: Linux--The Internet Appliance?

Phil Hughes
April 1997 **Linux Journal**

Full text available:  [html\(6.83 KB\)](#) Additional Information: [full citation](#), [index terms](#)

20 The BTRC Bluetooth remote control system

Fridtjof Feldbusch, Alexander Paar, Manuel Odendahl, Ivan Ivanov
July 2003 **Personal and Ubiquitous Computing**, Volume 7 Issue 2

Full text available:  [pdf\(847.16 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Abstract Emerging radio technologies like WLAN and Bluetooth enable electronic devices of any kind to communicate with one another. A simple and easy to implement application layer protocol called BTRC protocol was developed allowing devices to exchange data of any kind and format over different protocols like TCP/IP or Bluetooth. Based upon this protocol a universal remote control system was implemented. Software applications simulating cellular phones and personal digital assistants (PDA) were ...

Keywords: Bluetooth, Protocol, Remote control

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21 [Making computers disappear: appliance data services](#)

Andrew C. Huang, Benjamin C. Ling, John Barton, Armando Fox

 July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**

 Full text available: [pdf\(691.57 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Digital appliances designed to simplify everyday tasks are readily available to end consumers. For example, mobile users can retrieve Web content using handheld devices since content retrieval is well-supported by infrastructure services such as transformational proxies. However, the same type of support is lacking for input-centric devices, those that create content and allow users to share content. This lack of infrastructural support makes input-centric devices hard to use and less useful. ...

22 [PACT 2001 workshops: A middleware component supporting flexible user interaction for networked home appliances](#)

Tatsuo Nakajima

 December 2001 **ACM SIGARCH Computer Architecture News**, Volume 29 Issue 5

 Full text available: [pdf\(766.63 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we describe a middleware component supporting flexible user interaction for networked home appliances, which is a simple mechanism to fill the gap between traditional user interface systems and advanced user interaction devices. Our system enables us to control appliances in a uniform way at any places, and the system allows us to select suitable input and output devices according to our preferences and situations. Our system has based on the stateless thin-client system, and tran ...

23 [Unleashed: Web tablet integration into the home](#)

Anne McClard, Patricia Somers

 April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**

 Full text available: [pdf\(989.83 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

To understand how web access from a portable tablet appliance changes the way people use the Internet, MediaOne gave families pen-based tablet computers with a wireless connection to our high-speed data network. We used ethnographic and usability methods to understand how tablets would be integrated into household activities and to define user

requirements for such devices. Participants viewed the tablet as conceptually different from a PC. The tablet enabled a high degree of multitasking with ...

Keywords: Internet appliances, ergonomics, ethnography, hand-held computer, pen-based computing

24 Proceedings - only: Commons: resource sharing and protection in mobile appliance OS

Tetsuya Saito, Tatsuya Hagino

September 2000 **Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system**

Full text available:  [pdf\(104.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper, we propose a new operating system abstraction, called a *common*, for mobile appliances. We can use a *common* to prevent the excessive use of computational resources on appliances. Mobile appliances will have networked servers such as a http server. We need a new resource abstraction for mobile appliance OS to protect relatively precious and limited resources against service requests from the Internet. The *common* abstraction can restrict accesses of machine resource ...

25 Beyond the post-PC Internet

Vinton Cerf

September 2001 **Communications of the ACM**, Volume 44 Issue 9

Full text available:  [pdf\(354.74 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)
 [html\(13.74 KB\)](#)

26 From devices to tasks: automatic task prediction for personalized appliance control

Charles L. Isbell, Olufisayo Omojokun, Jeffrey S. Pierce

July 2004 **Personal and Ubiquitous Computing**, Volume 8 Issue 3-4

Full text available:  [pdf\(489.15 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

One of the driving applications of ubiquitous computing is *universal appliance interaction*: the ability to use arbitrary mobile devices to interact with arbitrary appliances, such as TVs, printers, and lights. Because of limited screen real estate and the plethora of devices and commands available to the user, a central problem in achieving this vision is predicting which appliances and devices the user wishes to use next in order to make interfaces for those devices available. We believe ...

Keywords: Appliance, Machine learning, Ubiquitous computing, User interaction

27 Limited vision: the techno-political war to control the future of digital mass media

Craig Birkmaier


August 1997 **netWorker**, Volume 1 Issue 2


Full text available:  [pdf\(623.50 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

28 Network attached storage architecture

Garth A. Gibson, Rodney Van Meter

November 2000 **Communications of the ACM**, Volume 43 Issue 11

Full text available:  [pdf\(224.67 KB\)](#) Additional Information:

 [html\(43.39 KB\)](#)[full citation, references, citings, index terms](#)


29 [Linux and the New Internet Computer](#)

Bill Ball

February 2001 **Linux Journal**Full text available:  [html\(13.85 KB\)](#) Additional Information: [full citation, index terms](#)

30 [Full Technical Papers: A reliable natural language interface to household appliances](#)

Alexander Yates, Oren Etzioni, Daniel Weld

January 2003 **Proceedings of the 8th international conference on Intelligent user interfaces**Full text available:  [pdf\(233.97 KB\)](#) Additional Information: [full citation, abstract, references, citings, index terms](#)

As household appliances grow in complexity and sophistication, they become harder and harder to use, particularly because of their tiny display screens and limited keyboards. This paper describes a strategy for building natural language interfaces to appliances that circumvents these problems. Our approach leverages decades of research on planning and natural language interfaces to databases by reducing the appliance problem to the database problem; the reduction provably maintains desirable pro ...

Keywords: appliance, database, natural language interface, planner

31 [Towards a MASC appliances-based educational paradigm](#)


Sandeep Chatterjee

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**Full text available:  [pdf\(665.21 KB\)](#) Additional Information: [full citation, references, citings, index terms](#)

Keywords: computer architecture, educational computing, instructional paradigm, multiple modalities

32 [The post-PC era: it's about the services-enabled new Internet](#)

R. H. Katz

August 2000 **Proceedings of the 4th international workshop on Discrete algorithms and methods for mobile computing and communications**Full text available:  [pdf\(114.47 KB\)](#) Additional Information: [full citation, abstract, index terms](#)

Many believe that the Post-PC is about new Information Appliances. We disagree. It is about a new kind of services-enabled Internet, able to deliver distributed, scalable, high performance and adaptable applications to diverse access networks and terminal devices. The focus of the Internet has been its protocols, primarily TCP/IP and HTTP. With the rise of the World Wide Web, and the explosion in the number of people with access to the Internet, the technical community has shifted ...


33 [Application requirements for middleware for mobile and pervasive systems](#)

Kimmo Raatikainen, Henrik Bærbak Christensen, Tatsuo Nakajima

October 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 4

Full text available: Additional Information:



 [pdf\(111.22 KB\)](#)[full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we examine the requirements for future middleware to support mobile and pervasive applications and identify key research areas. We illustrate the research areas with requirements identified in two specific research projects concerning pervasive healthcare and home entertainment.

34 [Rethinking the design of the Internet: the end-to-end arguments vs. the brave new world](#)

Marjory S. Blumenthal, David D. Clark

August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1

Full text available:  [pdf\(176.33 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This article looks at the Internet and the changing set of requirements for the Internet as it becomes more commercial, more oriented toward the consumer, and used for a wider set of purposes. We discuss a set of principles that have guided the design of the Internet, called the end-to-end arguments, and we conclude that there is a risk that the range of new requirements now emerging could have the consequence of compromising the Internet's original design principles. Were ...

Keywords: ISP, Internet, end-to-end argument

35 [Herbal-T, enabling integration, interoperability, and reusability of Internet components](#)

Israel Hilerio, Weidong Chen

March 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the international joint conference on Work activities coordination and collaboration**, Volume 24 Issue 2

Full text available:  [pdf\(1.57 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Herbal-T introduces an architecture where Internet component integration, interoperability, and component instantiation are the base for information flow coordination. This architecture introduces a framework for combining object functionality across the Internet to create new Internet applications. These new applications are defined in terms of active relationships. The concept of active relations as found in active databases is extended to define a new paradigm for creating Internet applicatio ...

Keywords: Herbal-T, Internet components, active relations, distributed relations, integration

36 [The Internet and interactive television](#)

Larry Press

December 1993 **Communications of the ACM**, Volume 36 Issue 12

Full text available:  [pdf\(2.31 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

37 [The fuzzy felt ethnography—understanding the programming patterns of domestic appliances](#)

Jennifer A. Rode, Eleanor F. Toye, Alan F. Blackwell

July 2004 **Personal and Ubiquitous Computing**, Volume 8 Issue 3-4

Full text available:  [pdf\(1.84 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

In this paper, we discuss domestic appliance use based on an ethnographic study of nine

households. Specifically, we look at which domestic appliances users choose to "program", and break them into two categories for analysis; those that allow users to program actions for the future and those that allow for macro creation to make repeated tasks easier. We also look at domestic programming habits based on gender.

Keywords: Domestic appliances, Ethnography, Gender, Programming

38 Has the Internet become indispensable?

Donna L. Hoffman, Thomas P. Novak, Alladi Venkatesh
July 2004 **Communications of the ACM**, Volume 47 Issue 7

Full text available:  [pdf\(111.69 KB\)](#)
 [html\(30.17 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)



39 Pervasive Servers: A framework for creating a society of appliances

Tatsuo Nakajima
July 2003 **Personal and Ubiquitous Computing**, Volume 7 Issue 3-4

Full text available:  [pdf\(352.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The paper proposes a framework to support spontaneous interaction among information appliances in our daily computing environments by creating a society of appliances. Our framework, that we call Pervasive Servers, embeds micro-servers called stationary pervasive servers everywhere. Also, a personal pervasive server that is carried by each person coordinates the embedded servers that are near to the person. The framework is very attractive because it is easy to personalise the coordination accor ...

Keywords: Appliances, Software infrastructure, Spontaneous interaction



40 A framework for the development of information appliances

Peter J. Thomas, John F. Meech, Robert D. Macredie
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**

Full text available:  [pdf\(504.79 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: information appliances, mobile/personal systems, personal information management



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